

Weather Event Simulator Case Study

Originating Office	:	WFO Melbourne
Date of Case	:	14 September 2001
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Weather Event	:	Tornadoes associated with Hurricane Gabrielle (2001).
Learning Objectives	:	<p>To properly anticipate the local tornado threat (general location, area of maximum concern, impact, timing, etc.) associated with landfalling tropical cyclones.</p> <p>To gain proficiency in manual radar detection techniques when interrogating suspect tornadic storm cells of smaller physical dimensions.</p> <p>To acquire a greater appreciation for real-time high resolution diagnostics (both spatial and temporal) when evaluating the near-storm environment during the warning-decision process.</p>
Available Data	:	<p>KMLB, all radar data. KTBW, KJAX and KAMX, lowest elevation angle data.</p> <p>AWIPS model guidance fields.</p> <p>All AWIPS satellite imagery (Regional scale).</p> <p>All AWIPS point data.</p> <p>All AWIPS redbook graphics.</p>
Time Period of Data	:	<p>0000 - 2359 UTC September 14, 2001, available data</p> <p>1030 - 1300 UTC September 14, 2001, simulation period.</p>
Type of Simulation	:	Self-guided, interval based.
Completion Time	:	2.5 hours.
Additional Materials	:	<p>HTML-based Simulation Guide is included with the case. Point your Web browser to: 2001Sep14/SimulationGuide/gabby_main/html.</p> <p>Two Corel Presentations entitled: "<i>Using High-Resolution Diagnostics to Facilitate the Short-Term Threat Assessment of Tornadoes during Tropical Storm Gabrielle (2001)</i>" and "<i>Tornadoes Associated With Tropical Cyclones in Florida</i>" on a supplemental CD-ROM;</p> <p>WFO Melbourne WarGen templates for Tornado Situations on a second supplemental CD-ROM.</p>
Installation	:	Use the Case_Installer.tcl script to install the case specifying one (1) DVD, the appropriate directory (e.g., /data/awips) on the appropriate hard drive (e.g., /dev/sdb1). The case directory will be called 2001Sep14.
Special Instructions	:	<p>This case includes localizations for WES versions 1.0, 1.1, 1.2 and 2.0. Please "cd" to the 2001Sep14/localizationDataSets subdirectory and extract (zcat tar -xvf -) the appropriate localization for your version of the WES software.</p>